

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Serial Number: 10/749,928

Filing Date: December 29, 2003

Title: DRIVER CIRCUIT

Assignee: Intel Corporation

Page 2

Dkt: 884.A75US1 (INTEL)

IN THE DRAWINGS

Formalized drawings are supplied herewith. Approval of these formal drawings is requested.

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111
Serial Number: 10/749,928
Filing Date: December 29, 2003
Title: DRIVER CIRCUIT
Assignee: Intel Corporation

Page 8
Dkt: 884.A75US1 (INTEL)

REMARKS

This responds to the Office Action mailed on April 11, 2005.

Claims 1, 3, 4, 5, 6, 9, 12 and 13 are amended. Reconsideration of all of the pending claims is respectfully solicited.

§112 Rejection of the Claims

Claim 14 was rejected under 35 USC § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention.

Claim 14 recites the limitation "the die" in the claim. There is insufficient antecedent basis for this limitation in the claim. Claim 14 has been amended to change the word "die" to the word "substrate," the antecedent basis of which is found in the same claim. The amendments made to claim 14 are not in response to an art rejection. Also, claims 15-19 no longer depend upon a rejected base claims. Reconsideration of the rejection and allowance of the claims is respectfully solicited.

§102 Rejection of the Claims

Claims 1-2, 4, 9-11, 13, and 20-24 were rejected under 35 U.S.C. § 102(b) as being anticipated by Jessee et al. (U.S. 4,728,817). The rejection of claims 14-19 were not described in the Examiner's remarks. Applicant respectfully traverses this rejection for some of the claims the reasons outlined below, and amends other claims to obviate this rejection.

A rejection under 35 U.S.C. § 102(b) requires that all of the elements of the claim be found in a single reference. All claim words must be given weight and if any one of the claim limitations is missing from the single reference, the rejection under 35 U.S.C. § 102(b) fails or does not apply.

The dependency of claims 4 and 13 have been changed so these claims depend upon allowable claims and therefore are no longer part of this rejection.

Independent claims 1 and 9 have been amended to include the limitation that the output signal is a half-raised cosine signal corresponding to the input signals. Claims 20-24 already

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Serial Number: 10/749,928
Filing Date: December 29, 2003
Title: DRIVER CIRCUIT
Assignee: Intel Corporation

Page 9
Dkt: 884.A75US1 (INTEL)

contain the limitation of a half-raised cosine signal generated from the input signals. A diagram showing this output signal is found in Figures 1B and 3B.

The Jessee et al. patent is concerned with the problem of having more than one power output transistor ON when driving a single output on a power inverter. A power inverter converts DC voltage into the shape of an approximate AC voltage signal. To accomplish this task, the Jessee et al. patent uses various circuitry including an isolation transformer which has two separate windings separated by a core of iron. The output of the inverter would be a continuous AC voltage.

In contrast to the Jessee et al. patent, the present invention as described in claims 1, 2, 9-11 and 20-24 include the limitation of an output signal having the shape of a half-raised cosine signal corresponding to, or generated from, the input signals. The limitation of a half-raised cosine signal is not found anywhere in the Jessee et al. patent. Since this limitation is not found in the single reference supporting the rejection under 35 U.S.C. § 102(b), the rejection of claims 1-2, 4, 9-11 and 20-24 fails. Reconsideration of this rejection and allowance of these claims is respectfully solicited.

Claim 14 -19 contain the limitation of an autotransformer. An autotransformer is far different in operation and structure from the isolation transformer used in the Jessee et al. patent. An isolation transformer, as its name implies, isolates the primary and secondary windings through a fluctuating magnetic field that can produce much interference and disturbance. In contrast to an isolation transformer, an autotransformer uses common windings and produces little if any disturbance of the signals. There are no separate primary and secondary windings and the autotransformer passes some of the signals without the use of a magnetic flux.

The limitation of an autotransformer is not found anywhere in the Jessee et al. patent. Since this limitation is not found in the single reference supporting the rejection under 35 U.S.C. § 102(b), the rejection of claims 14-19. Reconsideration of this rejection and allowance of these claims is respectfully solicited.

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Serial Number: 10/749,928
Filing Date: December 29, 2003
Title: DRIVER CIRCUIT
Assignee: Intel Corporation

Page 10
Dkt: 884.A75US1 (INTEL)

Allowable Subject Matter

Claims 3, 5-8, and 12 were objected to as being dependent upon a rejected base claim, but were indicated to be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Applicant has done this and changed the dependencies of claims 4 and 13 to make claims 3-8 and 12-13 allowable. Allowance of these claims is also solicited.

Conclusion

Applicant respectfully submits that the claims are in condition for allowance and notification to that effect is earnestly requested. The Examiner is invited to telephone Applicant's attorney ((612) 373-6904) to facilitate prosecution of this application.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

Respectfully submitted,

GERHARD SCHROM ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Attorneys for Intel Corporation
P.O. Box 2938
Minneapolis, Minnesota 55402
(612) 373-6904

Date July 11, 2005

By Daniel J. Kluth
Daniel J. Kluth
Reg. No. 32,146

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 11 day of July, 2005.

Daniel J. Kluth
Name

Daniel J. Kluth
Signature